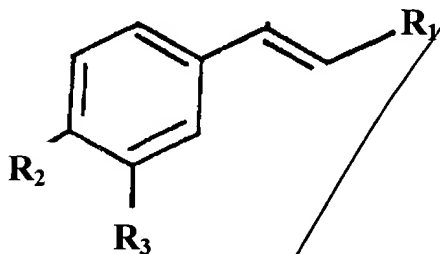


modulating amount of a formulation comprising 0.01 g/l to 25 g/l of one or more compounds having a formula



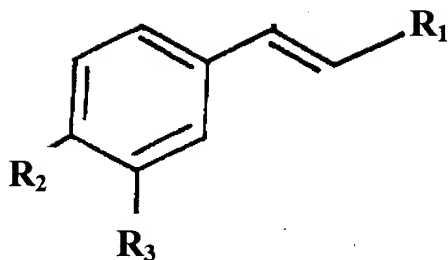
wherein R<sub>1</sub> represents -CHO, R<sub>2</sub> represents -OH, -H or an organic substituent containing from 1 to 10 carbon atoms, and R<sub>3</sub> represents a methoxy group, -H or an organic substituent containing from 1 to 10 carbon atoms; and wherein said formulation does not contain an antioxidant other than an antioxidant according to said formula.

2. (Reiterated) The method according to Claim 1, wherein said effective insect or arachnid growth modulating amount is 2.5 g/l to 12.5 g/l.

3. (Reiterated) The method according to Claim 1, wherein said one or more compounds are of cinnamic aldehyde or coniferyl aldehyde.

4. (Reiterated) The method according to Claim 3, wherein said formulation provides for about 70% or greater kill of said insect or arachnid population.

5. (Twice Amended) The method according to Claim 1, wherein said formulation [is free of antioxidants other than compounds of a formula

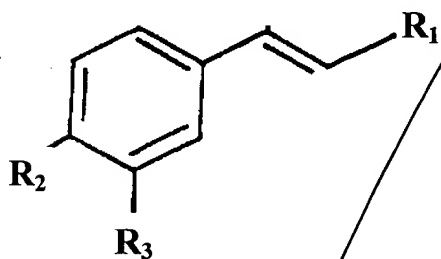


wherein  $R_1$  represents  $-CHO$ ,  $R_2$  represents  $-OH$ ,  $-H$  or an organic substituent containing from 1 to 10 carbon atoms, and  $R_3$  represents a methoxy group,  $-H$  or an organic substituent containing from 1 to 10 carbon atoms;] further comprises a salt of a polyprotic acid.

6. (Reiterated) The method according to Claim 1, wherein said insect or arachnid population is selected from the group consisting of a cockroach, an ant, and a mite.

7. (Twice Amended) A composition suitable for use as bait for an insect or arachnid comprising:

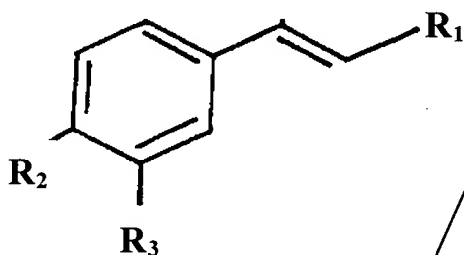
one or more compound having a formula



wherein  $R_1$  represents  $-CHO$ ,  $R_2$  represents  $-OH$ ,  $-H$  or an organic substituent containing from 1 to 10 carbon atoms, and  $R_3$  represents a methoxy group,  $-H$  or an organic substituent containing from 1 to 10 carbon atoms [, wherein said compound is not cinnamic aldehyde associated with] wherein said composition is coupled to a solid support or encapsulated.

8. (Twice Amended) A composition suitable for use as a shampoo or a soap, said composition comprising:

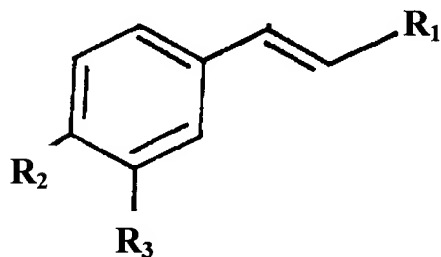
[an insect or arachnid growth modulating amount of] one or more compound of a formula



wherein  $R_1$  represents  $-CHO$ ,  $R_2$  represents  $-OH$ ,  $-H$  or an organic substituent containing from 1 to 10 carbon atoms, [in a soap or detergent formulation] and  $R_3$  represents a methoxy group,  $H$  or an organic substituent containing from 1 to 10 carbon atoms in a soap or detergent formulation, in an amount sufficient to provide a kill of about 70% or greater of a target insect or arachnid population.

9. (Reiterated) The composition according to Claim 8, wherein said one or more compounds are cinnamic aldehyde or coniferyl aldehyde.

10. (Reiterated) The composition according to Claim 9, wherein said formulation is free of antioxidants other than compounds of formula



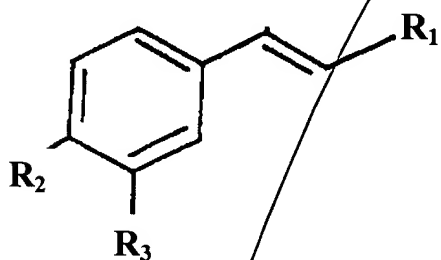
wherein  $R_1$  represents  $-CHO$ ,  $R_2$  represents  $-OH$ ,  $-H$  or an organic substituent containing from 1

to 10 carbon atoms, and R<sub>3</sub> represents a methoxy group, -H or an organic substituent containing from 1 to 10 carbon atoms.

11. (Reiterated) The composition according to Claim 10, wherein said composition comprises compounds of cinnamic aldehyde and coniferyl aldehyde.

12. (Twice Amended) A composition according to Claim 7 [or 17], wherein said solid support comprises cellulose.

13. (Twice Amended) [A] The composition according to Claim 12, wherein said one or more compound of the formula



wherein R<sub>1</sub> represents -CHO, R<sub>2</sub> represents -OH, -H or an organic substituent containing from 1 to 10 carbon atoms, and R<sub>3</sub> represents a methoxy group, -H or an organic substituent containing from 1 to 10 carbon atoms, is [associated] reversibly coupled with said cellulose.

14. (Twice Amended) [A] The composition according to Claim 12, wherein said [association] composition is coupled to said solid support via a cellulose binding domain.

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16. (Twice Amended) The composition according to Claim 7 [or 17], wherein said solid support is enclosed in a housing having means of ingress and egress for said insect or arachnid.